

Product Name: GT 949

Catalog No.: 6578

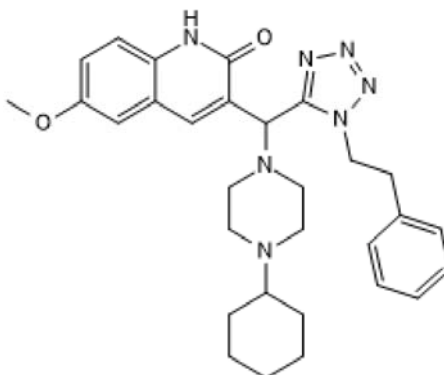
Batch No.: 1

CAS Number: 460330-27-2

IUPAC Name: 3-((4-Cyclohexylpiperazin-1-yl)(1-phenethyl-1*H*-tetrazol-5-yl)methyl)-6-methoxyquinolin-2(1*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₇N₇O₂
Batch Molecular Weight: 527.66
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.29	7.07	18.58
Found	67.97	7.01	18.79

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and selective EAAT2 positive allosteric modulator (EC₅₀ = 0.26 nM). Enhances the glutamate translocation rate, with no effect on substrate interaction. Enhances glutamate uptake by cultured astrocytes by approximately 58%. Exhibits no significant effect on DAT, SERT and NET or NMDA receptors. Neuroprotective in an in vitro model of excitotoxicity.

Physical and Chemical Properties:

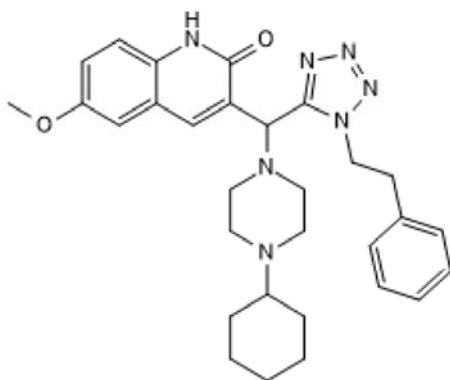
Batch Molecular Formula: C₃₀H₃₇N₇O₂

Batch Molecular Weight: 527.66

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Falcucci et al (2019) Novel Positive Allosteric Modulators of Glutamate Transport Have Neuroprotective Properties in an in Vitro Excitotoxic Model. *ACS Chem.Neurosci.* **10** 3437. PMID: 31257852 .

Kortagere et al (2018) Identification of novel allosteric modulators of glutamate transporter EAAT2. *ACS Chem.Neurosci.* **9** 522. PMID: 29140675.

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